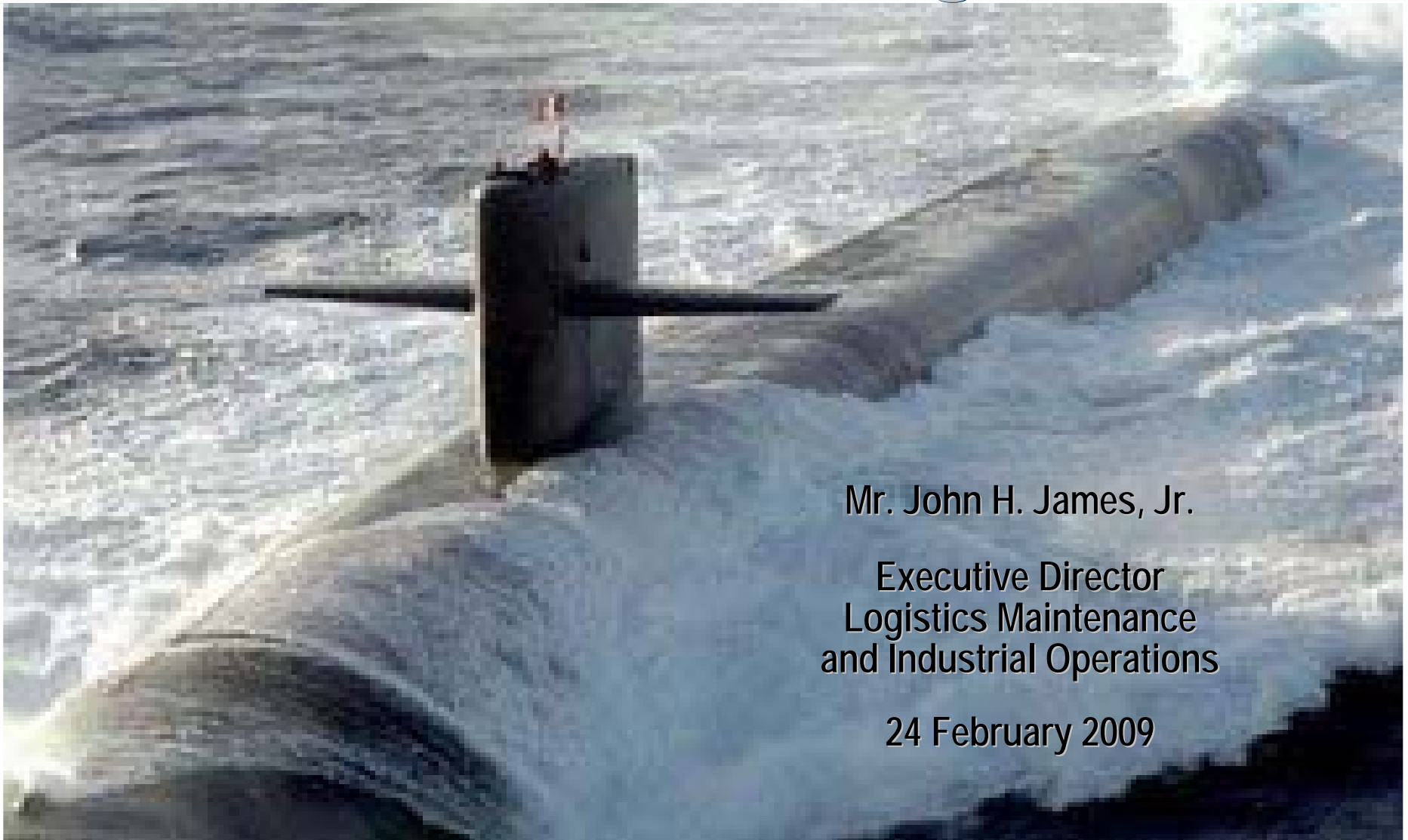




# NASA Project Management Challenge



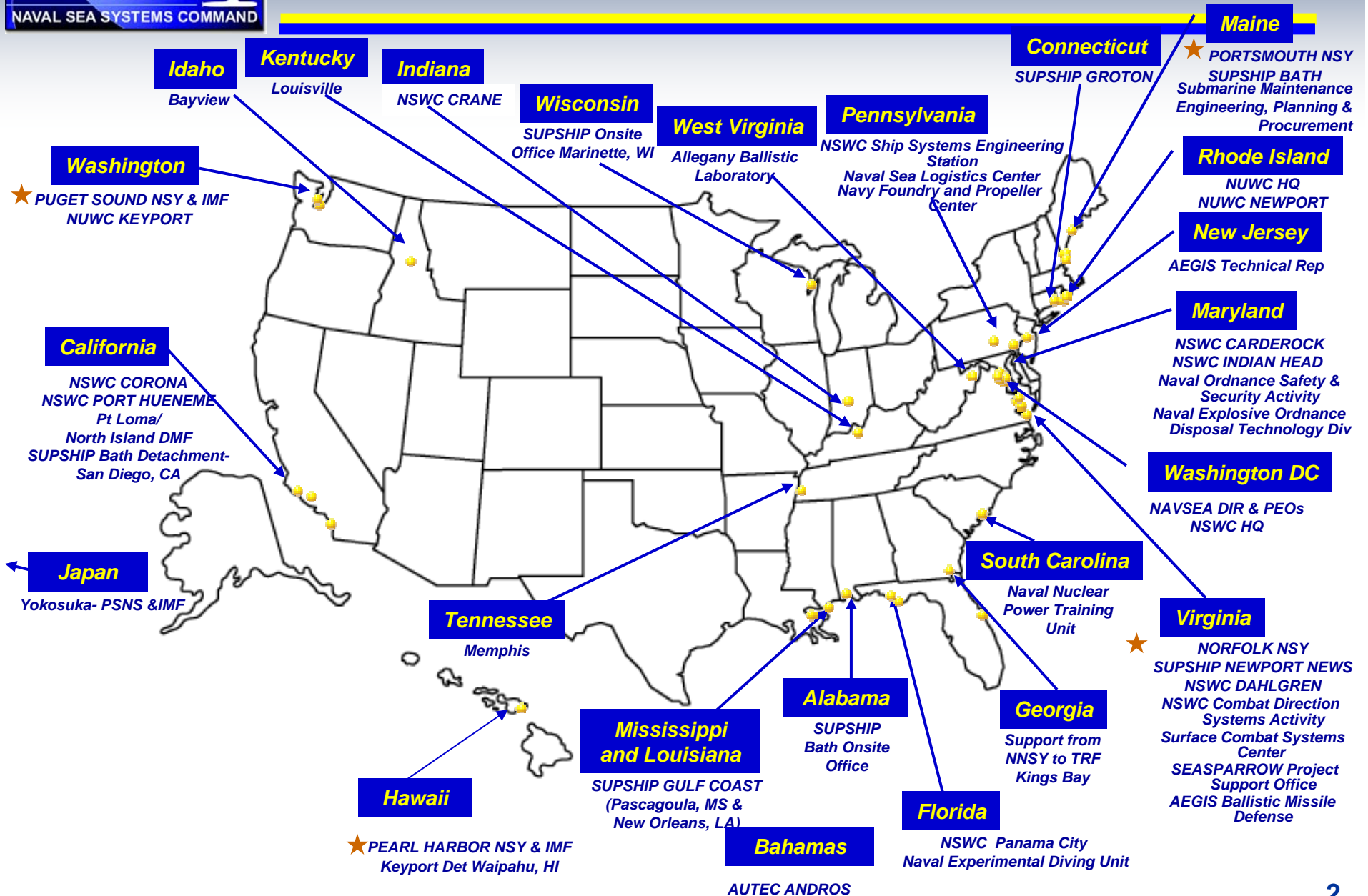
Mr. John H. James, Jr.

Executive Director  
Logistics Maintenance  
and Industrial Operations

24 February 2009



# Who We Are



# Products





# Who We Hire

**U. S. Citizens** with BS/MS/PhD in the following areas:

Main Disciplines

- Computer Engineering
- Computer Science
- Naval Architecture
- Electrical/Electronics Engineering
- Mathematics
- Mechanical Engineering
- Physics
- Physical Sciences
- Systems Engineering
- Industrial Engineering
- Ocean Engineering

Other Disciplines

- Aerospace Engineering
- Environmental Engineering
- Materials Engineering
- General Engineering
- Nuclear Engineering
- Biology/Molecular Biology
- Microbiology/Toxicology
- Chemistry
- Chemical Engineering
- Operations Research Analyst
- Metallurgy

**In addition to these scientific and engineering disciplines we also have many opportunities in Business Management, Human Resources and general support areas**



# Career Paths

- Project & program management
  - Leadership through management of a particular project or program
- Line management
  - Leadership through management of an organizational unit
- Science & Engineering (S & E)
  - Leadership through personal performance of S & E work, from research through fleet support

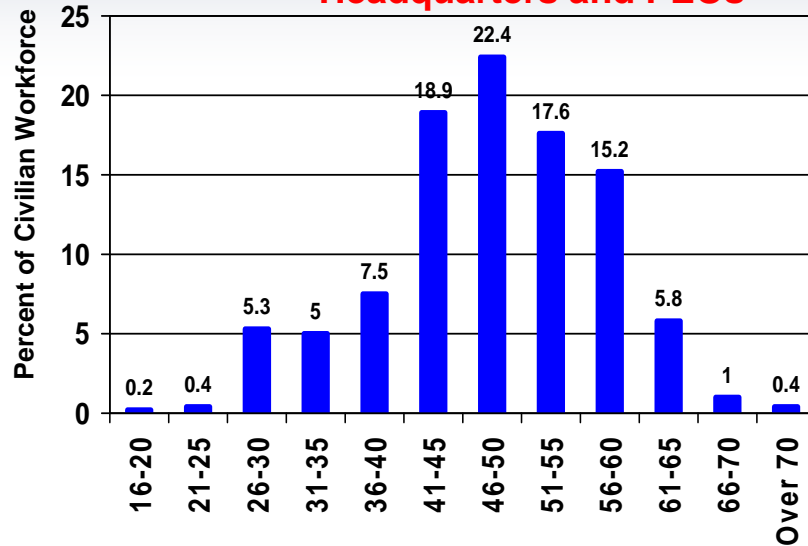
**All S&E Careers begin with a Technical Foundation in Science and Engineering**



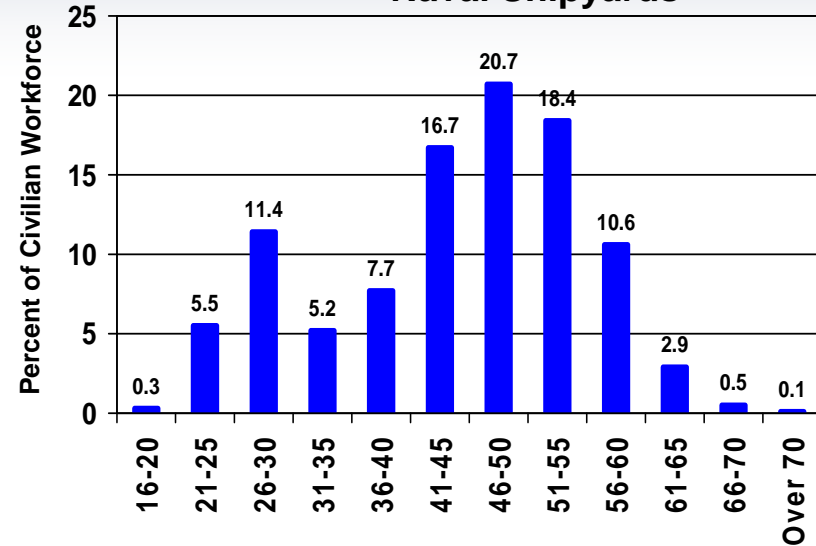


# Engineers/Scientist Age Distribution

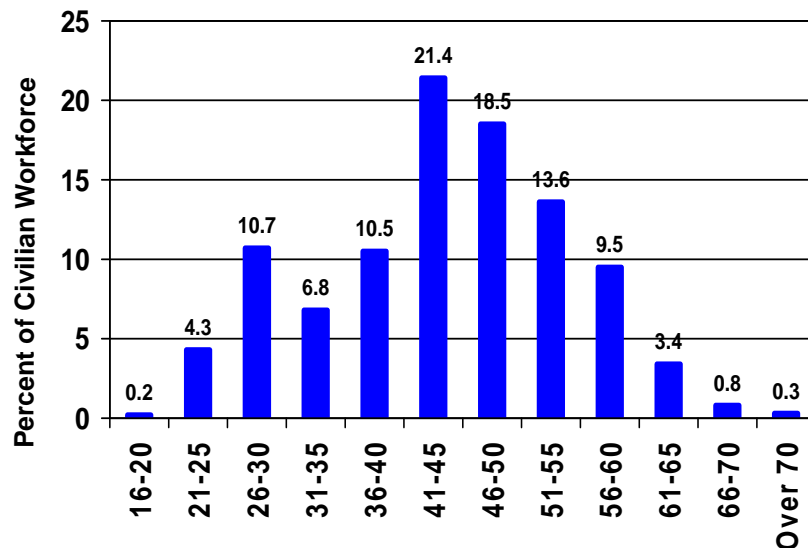
## Headquarters and PEOs



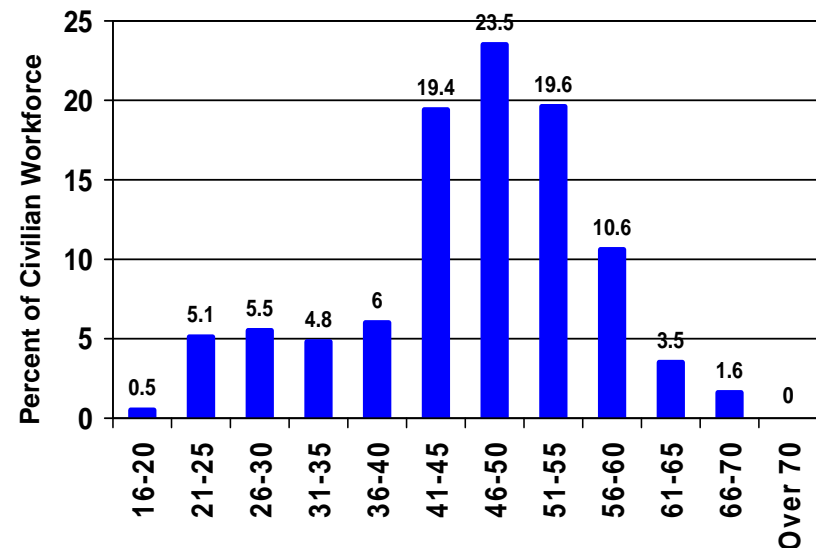
## Naval Shipyards



## Warfare Centers



## Other Activities





# Experience Matters

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**Design**

**Operation**

**Maintenance**

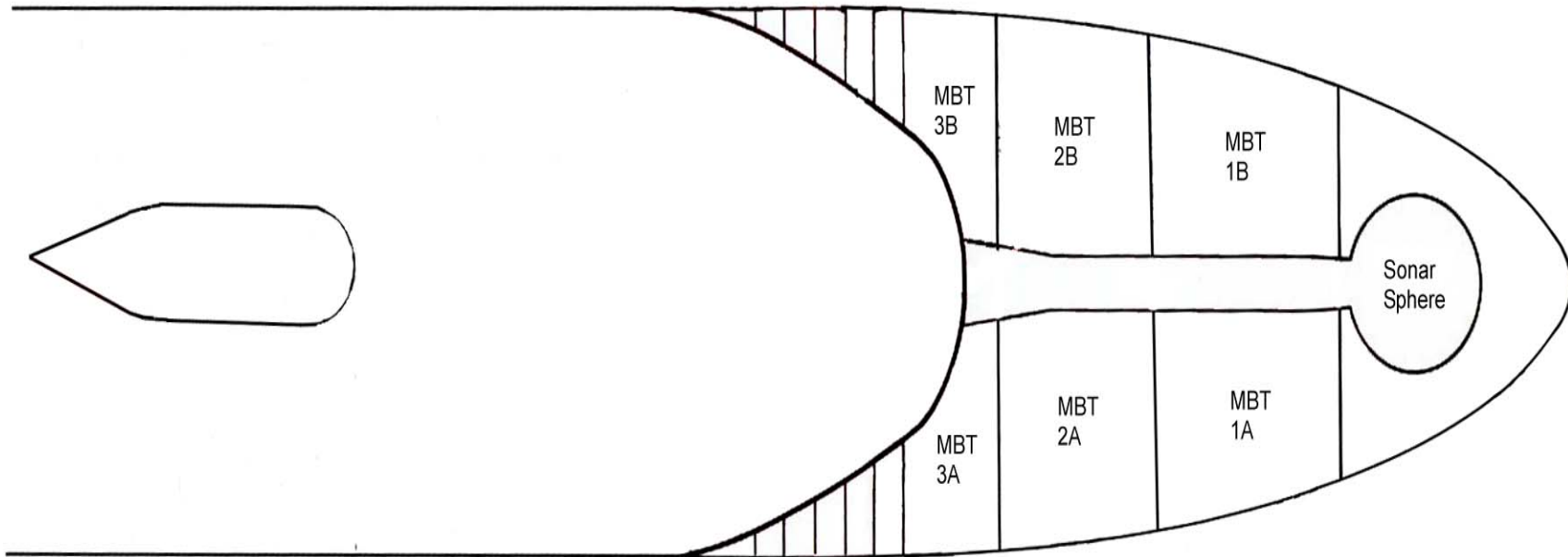
# Task Force Maintenance



- SSBN ABT Check Valve Maintenance Plan
  - 1980-1989; 54 month restore/replace requirement
  - 1989-1991; 72 month restore/replace requirement. Extended based on material condition feedback data
  - 1991-2001; 120 month restore/replace requirement. Extended based on material condition feedback data
  - 2001; Deleted from maintenance plan. Cross-class application of SSN 688 Task Force Mike RCM results



# 688 Class SSN





# USS BIRMINGHAM (SSN 695)





# USS SAN FRANCISCO (SSN 711)



- 1 June 2000 – 8 May 2002 Norfolk Naval Shipyard performed SAN FRANCISCO's ERO
- 8 Jan 05 SAN FRANCISCO struck an underwater mountain at high speed and at depth
- Four of the six Main Ballast Tanks destroyed
- The ABT Check Valves held in the two undamaged Tanks and allowed the submarine to emergency surface





# Responding to Urgent Requirements USS SAN FRANCISCO (SSN 711)



**DOLPHIN, as she arrived, with torpedo shields on. Note gasket hanging outside of hatch**



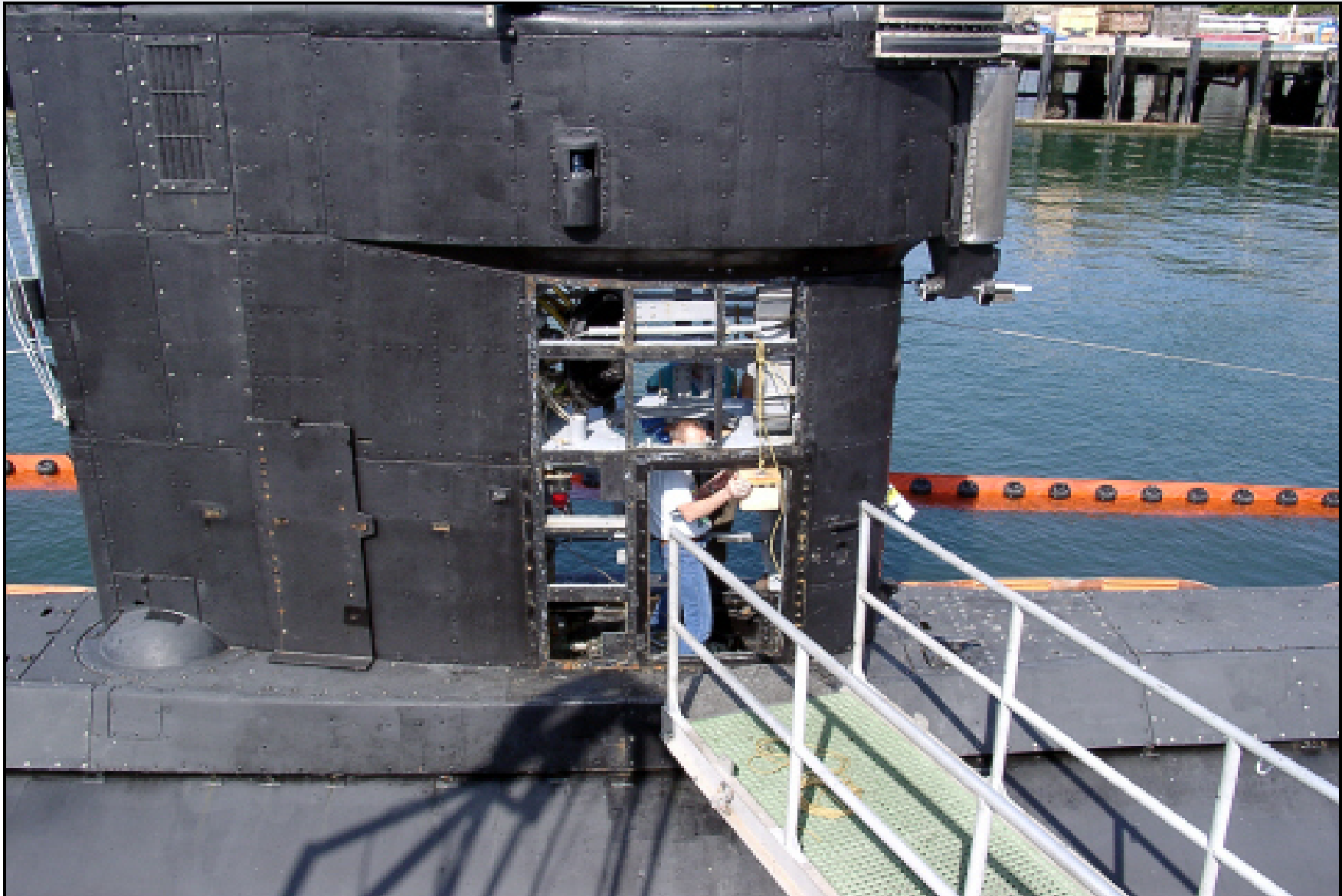


## Close-up of starboard fwd torpedo shield with side hatch dogged shut and gasket visible





## DOLPHIN Sail with Torpedo shields removed





# 688 w/ASDS Venting

